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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Matching AI with Business Needs (Phase I): This section of the exam measures the skills of a Business Analyst and covers how to evaluate whether AI is the right fit for a specific organizational problem. It focuses on identifying real business needs, checking feasibility, estimating return on investment, and defining a scope that avoids unrealistic expectations. The section ensures that learners can translate business objectives into AI project goals that are clear, achievable, and supported by measurable outcomes.
Topic 2	<ul style="list-style-type: none"> Managing Data Preparation Needs for AI Projects (Phase III): This section of the exam measures the skills of a Data Engineer and covers the steps involved in preparing raw data for use in AI models. It outlines the need for quality validation, enrichment techniques, and compliance safeguards to ensure trustworthy inputs. The section reinforces how prepared data contributes to better model performance and stronger project outcomes.
Topic 3	<ul style="list-style-type: none"> Identifying Data Needs for AI Projects (Phase II): This section of the exam measures the skills of a Data Analyst and covers how to determine what data an AI project requires before development begins. It explains the importance of selecting suitable data sources, ensuring compliance with policy requirements, and building the technical foundations needed to store and manage data responsibly. The section prepares candidates to support early data planning so that later AI development is consistent and reliable.

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PMI Certified Professional in Managing AI Sample Questions (Q75-Q80):

NEW QUESTION # 75

A financial services firm is assessing the success of a newly operationalized AI system for fraud detection. The project manager needs to evaluate the model against business key performance indicators (KPIs).

What is an effective method to help ensure the accuracy of this evaluation?

- A. Utilizing a diverse set of validation techniques
- B. Implementing a single comprehensive metric
- C. Reviewing quarterly business financial reports
- D. Consulting with external experts and auditors

Answer: A

Explanation:

PMI-CPMAI guidance on evaluating operational AI systems, especially in risk-sensitive domains like fraud detection, stresses that project managers must link model performance to business KPIs using multiple complementary evaluation methods, not a single metric. The material explains that fraud models have asymmetric costs (false positives vs. false negatives), evolving fraud patterns, and complex business impacts, so "no single measure is sufficient to characterize business value or risk." Instead, teams are encouraged to use a diverse set of validation techniques, such as holdout and cross-validation, backtesting on historical periods, confusion matrices, cost/benefit-weighted metrics, and A/B or champion-challenger tests in production-like environments. PMI-CPMAI also notes that evaluation should combine technical metrics (precision, recall, ROC/AUC, F1, lift) with business-oriented indicators (fraud losses avoided, investigation workload, customer friction, and regulatory or compliance thresholds). Using multiple techniques allows the project manager to check consistency across views and avoid being misled by a single "good-looking" number that hides harmful side effects. Relying on quarterly financial reports or external experts alone does not provide the granular, model-specific insight required, and a single comprehensive metric contradicts PMI's emphasis on multidimensional evaluation. Therefore, to ensure an accurate and reliable assessment of the AI fraud system against business KPIs, the most effective method is utilizing a diverse set of validation techniques.

NEW QUESTION # 76

A development team is tasked with creating an AI system to assist physicians with diagnosing medical conditions. They encountered cases where symptoms do not always lead to well-defined diagnoses.

Which approach should the project manager integrate to handle the inherent uncertainty?

- A. Implement a more complex retrained model
- B. Enhance the knowledge base with more detailed rules
- C. Keep a human in the loop with all decision-making
- D. Increase the number of input variables

Answer: C

Explanation:

For AI systems supporting high-stakes medical decisions, PMI-CP/CPMAI and responsible AI guidance emphasize human-in-the-loop oversight as the primary way to manage inherent uncertainty and risk. In clinical diagnosis, symptoms are often ambiguous, overlapping across multiple conditions, and influenced by patient history and context. No matter how advanced the model, there will be edge cases, rare diseases, and conflicting signals.

Rather than attempting to eliminate uncertainty purely through more complex models, more input variables, or ever-growing rule sets, best practice is to design the AI as a decision-support tool, not an autonomous decision-maker. That means physicians retain ultimate responsibility, reviewing AI suggestions, over-riding them when clinically necessary, and using their expertise to weigh patient-specific factors the model may not capture.

Human-in-the-loop design also supports explainability and trust: clinicians can question outputs, cross-check with other evidence, and provide feedback that can be used later for model improvement. CPMAI's lifecycle framing for regulated and safety-critical domains is clear: when outcomes materially affect health or life, the appropriate way to handle uncertainty is to keep a human in the loop for all decision-making, which aligns directly with option A.

NEW QUESTION # 77

A hospital wants to develop a medical records system with the primary goal of minimizing or eliminating paper records. They have identified where the cognitive AI solution will be applied. In addition, business objectives have been quantified and key performance indicators (KPIs) have been determined.

What else needs to be done to progress to the next Cognitive Project Management for AI (CPMAI) phase?

- A. Create interdepartmental strategies
- B. Explore external data sources
- C. Determine the project ROI
- D. Begin prototype development

Answer: C

Explanation:

CPMAI's Phase I - Business Understanding focuses on clearly defining the business problem, aligning AI efforts with organizational goals, and establishing measurable success criteria including ROI expectations.

PMI's own overview of CPMAI notes that in this phase, teams should "set success criteria" and define both KPIs and ROI expectations so that everyone understands what success and failure look like before moving on. Other CPMAI-oriented resources describe Phase I artefacts such as a problem statement, AI pattern fit, stakeholder analysis, and a preliminary ROI sheet that quantifies expected benefits and costs. In the scenario, the hospital has already identified where the cognitive solution will be applied, quantified business objectives, and defined KPIs. What is still missing from the core Phase I deliverables is a clear view of the project's expected ROI, linking reduced paper records and process improvements to financial and operational value.

Beginning prototype development (B) belongs to later modeling phases, exploring external data sources (D) is part of Data Understanding, and interdepartmental strategies (C) are broader organizational actions rather than a specific Phase I gating item. To progress to the next CPMAI phase in a way that matches the methodology, the team must determine the project ROI, making option A the correct answer.

NEW QUESTION # 78

A healthcare organization plans to use an AI solution to predict patient readmissions. The data science team needs to identify data sources and ensure data quality.

Which method will meet the project team's objectives?

- A. Implementing data augmentation techniques to fill missing values
- B. Using data profiling tools to assess data completeness
- C. Setting up a continuous integration pipeline for real-time data validation
- D. Operationalizing a data catalog to maintain metadata standards

Answer: B

Explanation:

In PMI-CPMAI's treatment of data for AI, especially in sensitive domains like healthcare, the first responsibility of the project and data science teams is to understand and assess data quality and suitability before model development. The guidance states that AI teams should "systematically profile candidate data sources to evaluate completeness, consistency, validity, and coverage of key populations and variables relevant to the use case." Data profiling tools are highlighted as a practical means to inspect distributions, missing values, outliers, and anomalies across structured clinical, administrative, and claims data.

For a patient readmission prediction use case, PMI-CPMAI stresses that teams must identify which sources (EHR, discharge summaries, lab results, prior admissions, demographics, social determinants, etc.) are available and then "quantify data quality metrics such as completeness and timeliness to determine whether the dataset is fit for training and deployment." While techniques such as augmentation or real-time validation might be valuable later, they build upon an initial understanding obtained via profiling. Operationalizing a catalog supports governance and discovery but does not directly satisfy the immediate need to measure data quality.

Therefore, the method that best meets the objective of identifying data sources and ensuring data quality is to use data profiling tools to assess data completeness and other quality dimensions, providing an evidence-based foundation for subsequent preprocessing, feature engineering, and model training.

NEW QUESTION # 79

A hospital wants to develop a medical records system with the primary goal of minimizing or eliminating paper records. They have identified where the cognitive AI solution will be applied. In addition, business objectives have been quantified and key performance indicators (KPIs) have been determined.

What else needs to be done to progress to the next Cognitive Project Management for AI (CPMAI) phase?

- A. Create interdepartmental strategies
- B. Explore external data sources
- **C. Determine the project ROI**
- D. Begin prototype development

Answer: C

Explanation:

CPMAI's Phase I - Business Understanding focuses on clearly defining the business problem, aligning AI efforts with organizational goals, and establishing measurable success criteria including ROI expectations. PMI's own overview of CPMAI notes that in this phase, teams should "set success criteria" and define both KPIs and ROI expectations so that everyone understands what success and failure look like before moving on. Other CPMAI-oriented resources describe Phase I artefacts such as a problem statement, AI pattern fit, stakeholder analysis, and a preliminary ROI sheet that quantifies expected benefits and costs. In the scenario, the hospital has already identified where the cognitive solution will be applied, quantified business objectives, and defined KPIs. What is still missing from the core Phase I deliverables is a clear view of the project's expected ROI, linking reduced paper records and process improvements to financial and operational value.

Beginning prototype development (B) belongs to later modeling phases, exploring external data sources (D) is part of Data Understanding, and interdepartmental strategies (C) are broader organizational actions rather than a specific Phase I gating item. To progress to the next CPMAI phase in a way that matches the methodology, the team must determine the project ROI, making option A the correct answer.

NEW QUESTION # 80

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